



OCTOBER 2019

SOUTH DAKOTA STATE UNIVERSITY®  
AGRONOMY, HORTICULTURE, & PLANT SCIENCE DEPARTMENT

# 2019 South Dakota Spring Wheat Variety Trial Results Draper

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**Cooperator:** Paul Patterson  
**Location:** GPS: 43.821389°, -100.469722°  
**Soil Type:** Promise clay, 0-3% slopes  
**Previous crop:** Soybeans  
**Tillage:** No-till  
**Row spacing:** 10"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
-Starter: 6 gal/acre 10-25-0-5S-.25Z  
-Other: 40 gal/acre 28-0-0 mid-row banded  
**Herbicide:**  
-Burndown: none  
-Post: 16 oz/acre WideMatch + 4 oz/acre LV6  
**Fungicide:** none  
**Date seeded:** 4/29/2019  
**Date harvested:** 8/28/2019

Table 1a. 2019 spring wheat variety performance trial results (average of 4 replications) at Draper, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

Variety	Height (in)	Lodging (1-5)*	Test Wt (lbs)	Protein %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
Surpass	29	-	54.9	16.3	52.6	35.1	48.8	42.0	45.5
SY Valda	25	-	57.7	15.9	43.9	35.8	53.2	44.5	44.3
WB9653	25	-	54.4	15.2	47.4	37.3	47.3	42.3	44.0
SD4625	27	-	57.5	16.3	50.6	34.2	39.6	36.9	41.5
WB9590	23	-	55.0	17.0	46.6	32.1	44.8	38.4	41.1
WB9719	28	-	55.8	16.1	45.2	32.6	45.4	39.0	41.1
LCS Trigger	27	-	55.1	14.7	38.5	40.2	43.4	41.8	40.7
CP3530	28	-	55.0	16.5	42.2	35.1	43.4	39.2	40.2
Prevail	28	-	58.3	16.1	42.6	34.0	43.9	38.9	40.2
LCS Rebel	29	-	53.6	16.7	42.8	34.5	42.0	38.2	39.7
SY Rustler	28	-	56.6	16.1	42.5	29.4	47.0	38.2	39.6
Focus	29	-	56.7	17.4	45.0	34.5	38.7	36.6	39.4
Lang-MN	26	-	53.3	16.4	41.2	33.6	40.8	37.2	38.6
SY Ingmar	24	-	55.7	16.8	42.1	31.6	41.5	36.5	38.4
Shelly	25	-	54.5	15.7	37.8	33.6	43.7	38.6	38.3
Forefront	29	-	56.3	16.7	48.4	28.4	38.0	33.2	38.3
Ambush	27	-	56.9	16.5	45.7	28.2	40.6	34.4	38.1
Faller	29	-	53.1	15.8	42.4	32.5	37.9	35.2	37.6
Advance	26	-	53.4	15.6	42.7	25.8	42.3	34.0	36.9
Prosper	31	-	55.5	16.1	35.4	33.2	40.1	36.6	36.2
RB07	28	-	54.0	17.2	32.9	35.8	40.0	37.9	36.2
Linkert	24	-	58.0	18.0	40.3	31.2	37.0	34.1	36.1
MS Chevelle	25	-	57.4	15.4	41.4	29.1	37.2	33.1	35.9
WB9479	23	-	54.8	17.5	41.4	25.0	40.7	32.8	35.7
MS Camaro	24	-	56.8	17.1	38.5	28.7	35.9	32.3	34.4
Boost	28	-	57.2	17.2	40.9	23.1	34.7	28.9	32.9
Bolles	29	-	56.2	17.6	34.3	25.8	31.7	28.8	30.6
LCS Cannon	28	-	58.7	16.0	-	39.1	45.4	42.3	-
<b>Trial Average#</b>	27	-	55.7	16.5	42.4	31.5	39.7	36.8	38.6
<b>LSD(0.05)†</b>	-	-	3.5	0.4	8.3	3.2	6.9	-	-
<b>C.V.%‡</b>	-	-	4.6	1.8	14.0	7.3	10.8	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.

Table 1b. 2019 spring wheat variety performance trial results (average of 4 replications) at Draper, SD, continued. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2017 (bu/a)	2018 (bu/a)	2019 (bu/a)	2-year (bu/a)	3-year (bu/a)
MS Barracuda	24	-	52.7	16.7	-	29.0	47.4	38.2	-
CP3888	28	-	55.7	16.3	-	33.6	35.5	34.5	-
MN-Washburn	26	-	52.8	16.1	-	-	47.2	-	-
CP3915	27	-	53.7	16.3	-	-	45.2	-	-
AP Murdock	24	-	54.8	15.8	-	-	44.7	-	-
SY 611 CL2	25	-	55.4	16.4	-	-	42.4	-	-
TCG-Spitfire	26	-	54.7	15.8	-	-	40.2	-	-
CP3939	25	-	55.2	16.7	-	-	38.8	-	-
Commander	26	-	56.9	17.0	-	-	38.8	-	-
TCG-Heartland	24	-	54.8	17.3	-	-	38.1	-	-
MN14105-7	25	-	58.0	17.2	-	-	38.0	-	-
MS-19SW2	28	-	55.9	16.7	-	-	35.4	-	-
TCG-Wildfire	28	-	55.2	16.6	-	-	32.4	-	-
MS-19SW1	33	-	52.3	17.5	-	-	31.1	-	-
TCG-Climax	31	-	56.9	18.2	-	-	30.5	-	-
<b>Trial Average#</b>	27	-	55.7	16.5	42.4	31.5	39.7	36.8	38.6
<b>LSD(0.05)†</b>	-	-	3.5	0.4	8.3	3.2	6.9	-	-
<b>C.V.%‡</b>	-	-	4.6	1.8	14.0	7.3	10.8	-	-

\* Lodging score: 1, perfectly standing; to 5, completely flat.

# Trial averages may include values from experimental lines that are not reported.

† Value required ( $\geq$ LSD) to determine if varieties are significantly different from one another.

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